College of Agriculture & Life Sciences Bachelor of Science Dairy Science (DASC) Major DBM Option

Date of Entry under UG Catalog 2023-2024

Pathways to General Education and CALS Requirements [47 credits]

Concept 1 (9 credits)

II – Foundational Discourse		
ENGL 1105	First Year Writing	[3]
ENGL 1106	First Year Writing	[3]

1a – Advanced/Applied Discourse

[3]

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Concept 2 – Critical Thinking in the Humanities (6 credits)

		[3]
		[3]

Concept 3 – Reasoning in the Social Sciences (6 credits)

AAEC 1005	Economics of the Food and Fiber System	[3]
or	or	
ECON 2005	Principles of Economics	
AAEC 1006	Economics of the Food and Fiber System	[3]
or	or	
ECON 2006	Principles of Economics (Pre: 2005)	

Concept 4 – Reasoning in the Natural Sciences (8 credits)

BIOL 1105	Principles of Biology	[3] [1]
BIOL 1115	Principles of Biology Lab	
Or	or	
BIOL 1005	General Biology	
BIOL 1015	General Biology Lab	
BIOL 1106	Principles of Biology	[3] [1]
BIOL 1116	Principles of Biology Lab	
Or	or	
BIOL 1006	General Biology	
BIOL 1016	General Biology Lab	

Concept 5 (9 credits)

5f – Foundational Quantitative and Computational Thinking

MATH 1014	Precalculus with Transcendental Functions (3 credits)	[3]
or	or	
MATH 1025	Elementary Calculus (3 credits)	
or	or	
MATH 1225	Calculus of a Single Variable (4 credits)	
STAT 2004	Introductory Statistics Pre: MATH 1014 or MATH 1025	[3]
Or	or MATH 1225 or MATH 1524 or MATH 1525	
STAT 3005	Or	
Or	Statistical Methods Pre: MATH 1205 or MATH 1225	
STAT 3615	Or	
	Biological Statistics Pre: MATH 1205 or MATH 1525 or	
	MATH 1225 or MATH 1025 or MATH 1524 or ISC 1104	

5a - Advanced/Applied Quantitative and Computational Thinking

ALS 3104 ¹	Animal Breeding and Genetics PRE: BIOL 1105, (STAT 2004 or STAT 3005 or STAT 3615), (APSC 1454 or	[3]
	DASC 2474 or DASC 2484) (3 credits)	r.1

¹ "in major" GPA courses indicated

DASC: DBM	College of Agriculture & Life Sciences	oniversity negistrar
	Bachelor of Science	
	Dairy Science (DASC) Major	
	DBM Option	
	Date of Entry under UG Catalog 2023-2	2024
Concept 6 (6 credits)	,	
62 Critique Practice in the	Arte	

0a – Chuque Flacuce III		
		[3]
6d – Critique and Praction	ce in Design	
		[3]

Concept 7 – Critical Analysis of Identity and Equity in the United States (3 credits)

airy Science Common Dearce Core [27 credite]

Dairy Science Common Degree Core [27 credits]		Fall	Spring
Chemistry Requirement			
CHEM 1015	Chemistry in Context	[3]	
CHEM 1016	Chemistry in Context		[3]
or			
CHEM 1035	General Chemistry	[3]	
CHEM 1036	General Chemistry		[3]
ALS 2304 ² Pre: BIOL 1106	Animal Physiology and Anatomy	[4]	
ALS 3204 ² Pre: ALS 2304, (CHEM 1036 or CHEM 1036H or	Animal Nutrition and Feeding	[3]	
CHEM 1016)			
ALS 3304 ² Pre: ALS 2304	Physiology of Reproduction	[3]	
DASC 2474 ²	Dairy Science and Industry		[3]
DASC 2664 ²	Prof Discourse & Career	[1]	
	Development		
DASC 3474 ² (Junior standing. Pre: DASC 2474)	Dairy Information Systems	[3]	
DASC 4374 ² (Pre: ALS 2304)	Physiology of Lactation		[3]
DASC 4664 ² (Pre: DASC 2664)	Translating Dairy Science	[1]	
TOTAL GENERAL	REQUIREMENT CREDITS		74

Satisfactory Progress Toward Degree

- A. After completion of 30 Virginia Tech semester credits: 3 semester credits of DASC courses
- B. After completion of 36 semester credits¹: 12 semester credits in any area of the Pathways to General Education C. After completion of 72 semester credits¹: 24 semester credits in any area of the Pathways to General Education, 6 semester credits of DASC courses; at least 9 semester credits of in-major courses
- D. After 96 semester credits: In-major GPA of at least 2.00, Overall GPA of at least 2.00

2.00 minimum overall and in-major GPAs are required for graduation.

Prerequisite: Some courses listed on this checksheet may have prerequisites; please consult the University Course Catalog or check with your advisor.

Includes credits completed at Virginia Tech, transfer credits, advanced placement & standing, credit by exam, and 1 course withdrawal

"in major" GPA courses indicated 2

Student must have completed 2 years of High School Foreign Language OR 6 credits of University Foreign Language. Credits do not count towards graduation requirements.

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[3]	
[^U]	[3]

[3]

College of Agriculture & Life Sciences Department of Dairy Science Bachelor of Science in Dairy Science DBM Option Date of Entry under UG Catalog 2023-24

Option Dairy Requirements [9 credits minimum]

DASC 4475 ¹ (Pre: DASC 2474)	Dairy Enterprise Management		[3]
DASC 4476 ¹ (Pre: DASC 3474, (DASC 4475	Dairy Enterprise Management	[3]	
or AAEC 3454)			
Select at least 1 course (3 credits total)			
DASC/APSC 3134 ¹	Animal Agriculture and the Environment		[3]
DASC 3274 ¹ (Co: ALS 3204)	Applied Dairy Cattle Nutrition	[3]	
DASC 4174 ¹ (Pre: ALS 3104)	Applied Dairy Cattle Genetics		[3]

Dairy electives [minimum 8 credits]		Fall	Spring
DASC 1464 ¹	Dairy Cattle Handling	[1]	
DASC 1574 ¹	Dairy Science First Year Experience	[1]	
DASC 2204 ¹ (Pre: AAEC 1005)	Entrepreneurship in Animal Agriculture	[3]	
DASC 2484 ¹	Dairy Cattle Evaluation		[2]
DASC/APSC 3134 ^{1,2}	Animal Agriculture and the Environment		[3]
DASC 3274 ^{1,2} (Co: ALS 3204)	Applied Dairy Cattle Nutrition	[3]	
DASC 4174 ^{1,2} (Pre: ALS 3104)	Applied Dairy Cattle Genetics		[3]
DASC 4274 ¹ (Co: DASC 3274)	Dairy Ration Formulation	[1]	
DASC/APSC 4304 ¹ (Pre: ALS 2304)	Bovine Reproduction Practices	[2]	
DASC 4474 ¹ (Pre: 3474, ALS 3204, ALS	Advanced Dairy Management Evaluation		[2]
3304. Co: 4475)			
DASC 4964 ¹ or 4974 ¹ or 4994 ¹	Field study, Independent study or Undergraduate	[]	[]
	research (maximum of 3 credits)		

Option Business Requirements [9 credits minimum]

Any AAEC (except 1005, 1006), ACIS, ECON (except 2005, 2006), FIN, MGT, or MKTG.

]]	[]
			[]

Option Restricted Electives [12 credits minimum]

Any AAEC, ACIS, ALS, APSC, BCHM, BIOL, BSE, CHEM, COMM, CS, CSES, DASC, ECON, ENT, FIW, FOR, FST, HNFE, HORT, MATH, MGT, MKTG, PHYS, SPAN, STAT, and BMVS courses (with advisor approval).

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Free Electives [Number needed to complete 120 credits]:

		[]	[]
		[]	[]
		[]	[]
MINIMUM DASC CREDITS REQUIRED FOR GRADUATION 2			

TOTAL CREDITS REQUIRED FOR GRADUATION 120

1 "in major" GPA courses indicated

2 These courses (DASC/APSC 3134, DASC 3274, DASC 4174) can be used to meet Option requirements or count toward Dairy Electives, but not both.

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